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Amendment under 37 CFR §1.111
Application No. 10/505,219
Attorney Docket No. 042112

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Amend the paragraph 4 beginning on page 8, line 16 as follows:

Laminated film composed of the LnCuOX thin film and the base thin film on the single-crystal substrate is enclosed in a vacuum environment, such as in sealed vacuum capsule, and subjected to a heat treatment at a temperature of 500°C or more, preferably 1000°C or more. Under the condition of less than 500°C, any homogeneous single-crystal LnCuOX thin film cannot be obtained due to insufficient diffusion. On the other hand, when a heating temperature is 1200°C or more the undesirable reaction between the single-crystal substrate and the LnCuOX compound takes place. Further, the softening of quartz glass make it ~~unusable~~ usable as a material to form sealed vacuum capsule.

Amend the paragraph 4¹ beginning on page 8¹², line 16¹ as follows:

An emission light was converged by a lens, and led to an optical fiber bundle. Then, the emission was spectrally divided to measure emission spectrum using a mono equip a charge-coupled device (CCD). The excitation was performed by irradiating the third harmonics (wavelength: 266 nm) of ~~neodimium~~ neodymium doped yttrium aluminum garnet (Nd : YAG) laser onto the thin film. FIG. 3 shows the emission spectra in the temperature range of 10 K to 300 K. A sharp ultraviolet emission having a center wavelength of 390 nm could be observed.

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